

Application of: Ifju et al.

Application No.:

10/731,777

Examiner: Holzen, Stephen A.

Filed:

December 9, 2003

Group Art Unit: 3644

For:

BENDABLE WING FOR MICRO AIR VEHICLE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the Duty to Disclose under 37 C.F.R. §1.56, Applicants hereby disclose information that may be relevant to the Examiner's consideration of the above-identified application and the patentability of its claims.

Applicants maintain that the inventions as claimed in the above-identified application distinguish over this prior art. This information is provided so that the Examiner can make an independent determination.

Respectfully submitted,

Date: July 8, 2005

Michael K. Dixon, Reg. No. 46,665

Akerman Senterfitt

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Phone: 561.653.5000

Docket No.: 5853-355

Fax:

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PTO/SB/21 (02-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/731.777 Filing Date TRANSMITTAL December 9, 2003 **FORM** First Named Inventor Ifiu et al Art Unit 3644 (to be used for all correspondence after initial filing) Examiner Name Holzen, Stephen A. Attorney Docket Number 108 5853-355 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication ~ Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please **Terminal Disclaimer Extension of Time Request** Identify below): Non-Patent Literature Documents Request for Refund **Express Abandonment Request** Return Receipt Postcard CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Akerman Senterfitt/Michael K. Dixon, Reg. No. 46,665 P.O. Box 3188 Individual name West Palm Beach FL 33402-3188 Signature Date July 8, 2005 **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Michael K. Dixon, Reg. No. 46,665 Date July 8, 2005 Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (10-03)

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TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

✓ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Name (Print/Type)

Michael K. Dixon

(\$)	180	.00

Complete if Known				
Application Number	10/731,777			
Filing Date	December 9, 2003			
First Named Inventor	lfju et al.			
Examiner Name	Holzen, Stephen A.			
Art Unit	3644			
Attorney Docket No.	5853-355			

Telephone 561.653.5000

METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued)						
Check Credit card Money Other None	3. A	3. ADDITIONAL FEES				
Deposit Account:	<u>Large</u>	Entity	Small	Entity	•	
Deposit Account 50-0951	Fee Code		Fee Code	Fee (\$)	Fee Description	Fee Paid
Number	1051	130	2051	65	Surcharge - late filing fee or oath	
Deposit Account Name Akerman Senterfitt	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
The Director is authorized to: (check all that apply)	1053	130	1053		Non-English specification	
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
Table 1 and	1252	420	2252	210	Extension for reply within second month	<u> </u>
1. BASIC FILING FEE Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid	1254	1,480	2254	740	Extension for reply within fourth month	
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255	2.010	2255	1.005	Extension for reply within fifth month	
	1401	330	2401	.,	Notice of Appeal	
	1402	330	2402		Filing a brief in support of an appeal	
1003 530 2003 265 Plant filing fee	1403	290	2403		Request for oral hearing	
1004 770 2004 385 Reissue filing fee		1,510	1451		Petition to institute a public use proceeding	
	1452	110	2452	•	Petition to revive - unavoidable	
SUBTOTAL (1) (\$) 0.00			ĺ			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	:	1,330	2453		Petition to revive - unintentional	
Fee from Ext <u>ra Claims below</u> Fee Paid	1501	1,330 480	2501 2502		Utility issue fee (or reissue)	
Total Claims -20** = X =	1502		2502		Design issue fee	
Independent 2** -		640	1		Plant issue fee	
Claims -3	1460	130	1460		Petitions to the Commissioner	
Large Entity Small Entity	1807	50	1807		Processing fee under 37 CFR 1.17(q)	180.00
Fee Fee Fee Fee <u>Fee Description</u>	1806	180	1806		Submission of Information Disclosure Stmt	160.00
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	l 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	205	examined (37 CFR 1.129(b))	
	1802	900	1802		Request for Continued Examination (RCE) Request for expedited examination	
1205 18 2205 9 ** Reissue claims in excess of 20 1802 900 1802 900 Request for expedited examination of a design application						
[m, 0,00]			ecify) _			
**or number previously paid, if greater; For Reissues, see above see above substituting fee Paid substitution fee Paid substitution fee Paid substitution fee Paid substitution						
SUBMITTED BY (Complete (if applicable)) Name (Partition No. As a second seco						

Date July 8, 2005 Signature WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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(Attorney/Agent)

PTO/SB/08B (08-03)

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INFORMATION DISCLOSURE				re required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known			
				Application Number	10/731,777		
				Filing Date	December 9, 2003		
STATEMENT BY APPLICANT		First Named Inventor	Ifju et al.				
(Use as many sheets as necessary)			acassand	Art Unit	3644		
			ecessary)	Examiner Name	Holzen, Stephen A.		
Sheet	1	of	1	Attorney Docket Number	5853-355		

		NON PATENT LITERATURE DOCUMENTS	
Initials* No.1 the item (book, magazine, journal, serial, symposium, catalog, etc.), date		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Albertani et al., "Experimental analysis of deformation for flexible-wing Micro Air Vehicles," AIAA SDM Conference, Paper, Austin, TX, 2005.	
		Albertani et al., "Aerodynamic Characterization and Deformation Measurements of a Flexible Wing Micro Air Vehicle," SEM Annual Conference, Portland, OR, 2005.	
		Garcia et al., "Roll Control for a Micro Air Vehicle Using Active Wing Morphing," AIAA Guidance, Navigation and Control Conference, Austin, TX, AIAA-2003-5347, August 2003.	
		Lian et al., "Mebrane Wing Model for Micro Air Vehicles," AIAA Journal, Vol. 41, No. 12, December 2003.	
		Abdulrahim et al., "Flight Characteristics of Wing Shaping for a Micro Air Vehicle with Membrane Wings," International Forum on Aeroelasticity and Structural - continued below	
		Continued from above - Dynamics, Amsterdam, The Netherlands, IFASD-US-24, June 2003.	
		Abdulrahim et al., "Development of Mission-Capable Flexible-Wing Micro Air Vehicles," AIAA Southeastern Regional Student Conference, Huntsville, AL, April 2002.	
		Ifju et al., "Flexible-Wing-Based Micro Air Vehicles," AIAA Aerospace Sciences Meeting and Exhibit, 40th Reno, NV, Jan. 14-17, 2002.	
		Waszak et al., "Stability and Control Properties of an Aeroelastic Fixed Wing Micro Aerial Vehicle," AIAA Atmospheric Flight Mechanics Conf., Montreal, Canada, August 2001.	
		Ifju et al., "Composite Materials for Micro Air Vehicles," SAMPE Conference, Long Beach, CA, May 2001.	

Examiner	-	Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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